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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/759,505	01/16/2004	Guillermo C. Bazan	LA-1279-400-C1US	7669
7590		07/26/2007		
Robert Berliner BERLINER & ASSOCIATES 31st Floor 555 W. Fifth Street Los Angeles, CA 90013			EXAMINER THOMPSON, CAMIE S	
			ART UNIT 1774	PAPER NUMBER
			MAIL DATE 07/26/2007	DELIVERY MODE PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	Application No. 10/759,505	Applicant(s) BAZAN ET AL.	
	Examiner Camie S. Thompson	Art Unit 1774	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on Amendment filed April 27, 2007.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 4,5,12-15 and 18-22 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 20-22 is/are allowed.
- 6) ☒ Claim(s) 4,5 and 12-14 is/are rejected. <sup>+18-19</sup>
- 7) ☒ Claim(s) 15 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### DETAILED ACTION

1. Applicant's amendment and accompanying remarks filed April 27, 2007 are acknowledged.
2. Examiner acknowledges newly added claims 20-22.
3. The rejection of claims 4-5, 12-15 and 18-19 under 35 U.S.C. 102(e) as being anticipated by Toguchi et al., U.S. Patent Number 6,582,837.

### *Claim Objections*

4. Claims 4-5, 12-15, 18-19 and 20-22 are objected to because of the following informalities: The term "binaphthyl" is misspelled. Appropriate correction is required.

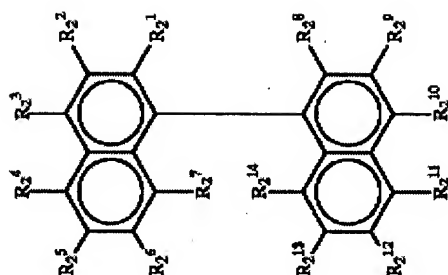
### *Claim Rejections - 35 USC § 103*

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 4-5, 12-14 and 18-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Toguchi et al., U.S. Patent Number 6,582,837.

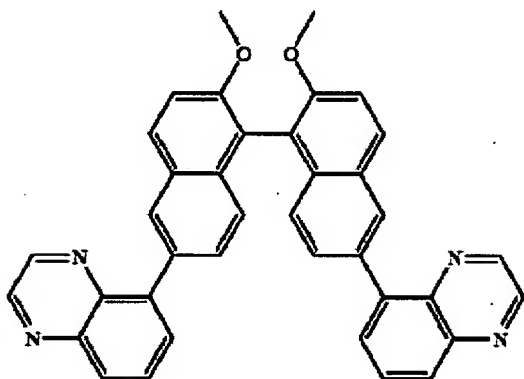
Toguchi discloses an organic electroluminescence device having one or more organic thin layers including a luminescent layer between an anode and a cathode wherein at least one of the organic thin layers includes a binaphthyl compound such as



The reference reads on the instant claims when  $R_2^1$  to  $R_2^{14}$  represents hydrogen, a substituted or unsubstituted alkoxy group, an aromatic hydrocarbon and aromatic heterocycle (see column 11, line 20-column 12, line 54). The figures in the reference disclose an electron-transporting layer (hole blocking layer) sandwiched between the luminescent layer and the cathode. The Toguchi reference reads on instant claims 4-5 when  $R_2^1$  and  $R_2^8$  of the reference are alkoxy groups (or hydrogen for instant claims 18-19) and  $n^1$  and  $n^2$  of the instant claims are zero and  $Ar^1$  and  $Ar^2$  are an aromatic hydrocarbon. Therefore, it would have been obvious to apply the substitutions as required by the instant claims in order to have improved luminance. Toguchi clearly renders the binaphthyl compounds of the present claims obvious.

7. Claim 15 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The prior art does not provide for the recited organic electroluminescence device, further including hole blocking layer between the emissive layer and the cathode wherein the hole blocking layer comprises

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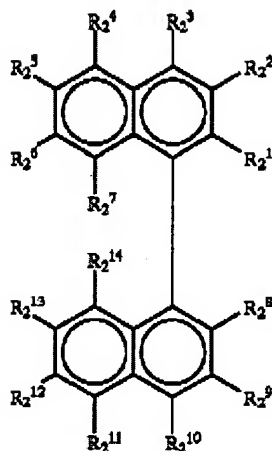


8. Claims 20-22 are allowed. The prior art does not provide for the recited binaphthyl compounds as claimed in claims 20-22.

### *Response to Arguments*

9. Applicant's arguments with respect to the instant claims have been considered but are moot in view of the new ground(s) of rejection. Applicant argues that the Toguchi reference does not expressly disclose the compounds of the present claims. Toguchi does disclose formula II-1, which renders obvious the compounds found in the present claims. Toguchi discloses

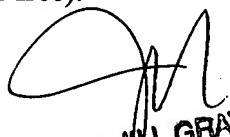
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Toguchi discloses substitutions that can be hydrogen; substituted or unsubstituted alkoxy groups and substituted or unsubstituted aromatic heterocycle. It would be obvious to make the necessary substitutions in order to improve the luminescence.

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Camie S. Thompson whose telephone number is (571) 272-1530. The examiner can normally be reached on Monday through Friday from 7:30 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Milton Cano can be reached at (571) 272-1398. The fax phone number for the Group is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
JILL GRAY  
PRIMARY EXAMINER